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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/075,761	02/15/2002	Hiroshi Tada	Q68574	9499	
75	90 07/31/2003				
SUGHRUE, MION, ZINN, MACPEAK & SEAS 2100 Pennsylvania Avenue, N.W. Washington, DC 20037			EXAMINER		
			GARRETT, DAWN L		
			ART UNIT	PAPER NUMBER	
•			1774	0	
	•		DATE MAILED: 07/31/2003	Q	

Please find below and/or attached an Office communication concerning this application or proceeding.

····	App	lication No.	Applicant(s)
	10/	075,761	TADA ET AL.
Office Action Summary		miner	Art Unit
•	•	n Garrett	1774
The MAILING DATE of this commun			
Period f r Reply			
A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMUN  - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm  - If the period for reply specified above is less than thirty (3  - If NO period for reply is specified above, the maximum si  - Failure to reply within the set or extended period for reply  - Any reply received by the Office later than three months are amed patent term adjustment. See 37 CFR 1.704(b).  Status	ICATION. s of 37 CFR 1.136(a). I munication. 30) days, a reply within tatutory period will apply y will, by statute, cause	n no event, however, ma the statutory minimum o y and will expire SIX (6) the application to becom	y a reply be timely filed  f thirty (30) days will be considered timely.  MONTHS from the mailing date of this communication.  Be ABANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) fi	iled on <u>06 June 2</u>	2003 .	
2a) This action is <b>FINAL</b> .	2b)⊠ This act	ion is non-final.	
closed in accordance with the prac			matters, prosecution as to the merits is C.D. 11, 453 O.G. 213.
Disposition of Claims		•	
4) Claim(s) 1-21 is/are pending in the	• •		
4a) Of the above claim(s) <u>8-21</u> is/are	e witnarawn trom	consideration.	
5) Claim(s) is/are allowed.			
6) Claim(s) 1-7 is/are rejected.			•
7) Claim(s) is/are objected to.		···	
8) Claim(s) are subject to restrict Application Papers	ction and/or elec	lion requirement.	
9) The specification is objected to by th	e Examiner.		
10)⊠ The drawing(s) filed on <u>15 February</u>	<u>2002</u> is/are: a)⊠	accepted or b)	objected to by the Examiner.
Applicant may not request that any ob	jection to the draw	ring(s) be held in at	peyance. See 37 CFR 1.85(a).
11) The proposed drawing correction file	d on is: a	)∐ approved b)[	disapproved by the Examiner.
If approved, corrected drawings are re	equired in reply to t	his Office action.	
12)☐ The oath or declaration is objected to	by the Examine	er.	
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim	n for foreign prior	ity under 35 U.S.	C. § 119(a)-(d) or (f).
a)⊠ All b)□ Some * c)□ None of:			
1. Certified copies of the priority	documents have	e been received.	
2. Certified copies of the priority	documents have	e been received i	n Application No
<ul> <li>3. Copies of the certified copies application from the Intern</li> <li>* See the attached detailed Office action</li> </ul>	national Bureau	PCT Rule 17.2(a	een received in this National Stage )). not received.
14) Acknowledgment is made of a claim f		•	
a) The translation of the foreign lar	nguage provisior	al application ha	s been received.
Attachment(s)	a a i o a lo prio	, 4.140. 00 0.0	.5. 33 120 0110/01 121.
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (FB) Information Disclosure Statement(s) (PTO-1449) P			ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)
Patent and Trademark Office O-326 (Rev. 04-01)	Office Action Su	ımmary	Part of Paper No. 6

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### **DETAILED ACTION**

#### Restriction

1. Applicant's election <u>without</u> traverse of Group I, claims 1-7, in Paper No. 5 (dated June 6, 2003) is acknowledged. Claims 8-21 are withdrawn as non-elected.

# Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Claim 1, upon which claims 2-6 depend, recites "a plurality of striped upper electrodes formed on said organic thin film layer along a second direction different from said first direction". The claim does not previously recite "a first direction", so the claim is unclear with regard to the orientation of the upper electrodes as compared to the other components. For example, it is unclear which component is intended to be positioned in a first direction. Clarification and/or correction are required. For purposes of examination, the examiner interprets the striped upper electrodes' second direction to be in relation to the position of the striped lower electrodes.

## Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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6. Claims 1-3 and 5-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Miyashita et al. (US 2001/0001050 A1). Miyashita et al. disclose an organic electroluminescent element comprising pixel electrodes formed on a substrate (see abstract). The glass substrate (104) reads upon the instant "insulating substrate" (see fig. 1 and par. 157, example 1, and par. 42) per instant claims 1 and 5. The indium tin oxide (ITO) electrodes read upon the instant "lower electrodes" per instant claims 1, 5, and 6 (see fig. 1 and par. 157). The Miyashita et al. banks (105) may be comprised of carbon black (see par. 46) and are formed between the lower electrodes per instant claim 1 (see also fig. 1). The Miyashita et al. luminescent layer (108), which completely covers the banks (105) and the lower electrodes (101), (102), and (103), reads upon the instant "at least one organic thin film layer including an emitting layer formed on said fillers and said lower electrodes" (see fig. 1 and par. 54). The cathode (113) is formed over the luminescent layer (108) (see fig. 1 and par. 60). The cathode is formed in a pattern perpendicular to the lower electrodes per instant claim 7 (see figures and par. 174). In a further embodiment, Miyashita et al. discloses including a hole injecting and transfer layer (208) between the luminescent layer (210) and the electrodes (201), (202), and (203) (see fig. 2 and par. 106) per instant claim 3. Miyashita et al. is deemed to anticipate all components of claims 1-3 and 5-7.

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# Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Furukawa et al. (JP 2000-123978) in view of Endo et al. (US 6,197,704). Furukawa et al. teach organic electroluminescent devices comprising a transparent substrate (1) such as glass, transparent (ITO) anodes (2), insulating film (3) between the anodes, a hole injecting layer (4) over the anodes and insulating film, light emitting layer (5), electron injecting layer (6), and cathodes (or "negative electrodes") (7) (see front page drawing of abstract and par. 5). The cathodes are formed perpendicular to the anodes per instant claim 7 (see drawing on front page of abstract). The Furukawa et al. insulating film (3) reads upon the instant "plurality of fillers"; however, Furukawa et al. fails to teach the insulating film is comprised of amorphous carbon. Furukawa et al. teaches one material appropriate for the insulating film is polyimide (see par. 18). Endo et al. teaches in the analogous art of insulating materials for electronic devices polyimide is an insulating material equivalent to amorphous carbon (see col. 1, lines 49-54). It would have been obvious to one of ordinary skill in the art to substitute amorphous carbon for the polyimide insulating film in the Furukawa et al. device, because Endo et al. teaches polyimide and amorphous carbon are equivalent insulating materials for an electronic device with similar dielectric constants.

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## Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dawn Garrett whose telephone number is (703) 305-0788. The examiner can normally be reached Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly can be reached at (703) 308-0449. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-2351.

DAWN L. GARRETT PATENT EXAMINER

**TECHNOLOGY CENTER 1700** 

D.G. July 22, 2003